

**Amendments to the claims:**

This listing of claims replaces all prior versions, and listings, of claims in the application.

**Listing of claims:**

Claims 1-11 (canceled).

12 (currently amended): Process for treating lameness caused by osteoarthritis comprising the administration, to a ~~human or to an~~ non-human animal not suffering from fractures, of an effective amount of a bisphosphonic acid derivative selected from the group consisting of:

- 1-hydroxyethylidenebisphosphonic acid and its sodium salts;
- 2-pyrid-2-ylethylidenebisphosphonic acid and its sodium salts;
- phenoxyethylenebisphosphonic acid and its salts;
- thiomorpholinomethylenebisphosphonic acid and its salts;
- 4-chlorophenylthiomethylenebisphosphonic acid and its salts;
- 1-hydroxy-2-(3-pyridyl)ethylidenebisphosphonic acid and its sodium salts;
- 1-hydroxy-2-(2-imidazolyl)ethyl-1,1-bisphosphonic acid and its salts; and
- 2-hydroxyethylidene-2-(3-pyridyl)-1,1-bisphosphonic acid and its sodium salts.

13 (previously presented): Process according to claim 12, for treating an animal belonging to the equidae family.

14 (previously presented): Process according to claim 12, for treating a horse.

15 (previously presented): Process according to claim 12, comprising the administration of 0.001 mg/kg/ to 100 mg/kg of body weight of the bisphosphonic acid derivative.

16 (previously presented): Process according to claim 12, for treating limps in horses, comprising the intravenous administration of 0.01 mg/kg/week to 1 mg/kg/week of tiludronic acid or one of its pharmaceutically acceptable salts.

17 (previously presented): Process according to claim 12, comprising the oral administration of the bisphosphonic acid derivative.

18 (previously presented): Process according to claim 12, comprising the parenteral administration of the bisphosphonic acid derivative.

19 (previously presented): Process according to claim 12, comprising the administration of the bisphosphonic acid derivative in the form of an implant.

20 (previously presented): Process according to claim 12, in which the bisphosphonic acid derivative is 4-chlorophenylthiomethylenebisphosphonic acid.

21 (new): Process for treating lameness caused by osteoarthritis comprising the administration to a horse, not suffering from fractures, of an effective amount of 4-chlorophenylthiomethylene-bisphosphonic acid or its sodium salt.